

IN THE CLAIMS:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An electro-optical apparatus, comprising:
a pair of substrates, the pair of substrates having an outer surface;
a holding frame housing the pair of substrates, the holding frame having an outer surface;
an electro-optical element sandwiched between the pair of substrates; and
an antistatic layer provided on the outer surface of the holding frame and at least one of the pair of substrates, the antistatic layer having a thickness between 100 and 200 nm and containing conductive particulates, the conductive particulates include any of Pd, Pt, Ru, ~~Ag, Au~~, Ti, In, Cu, Cr, Fe, Zn, ~~Sn~~, Ta, W, Pb, HfB₂, ZrB₂, LaB₆, CeB₆, YB₄, GdB₄, TiC, ZrC, HfC, TaC, SiC, WC, TiN, ZrN, HfN, Si and Ge.
2. (Original) The electro-optical apparatus according to claim 1, the antistatic layer being formed of an inorganic material.
3. (Previously Presented) The electro-optical apparatus according to claim 2, the antistatic layer being formed of silica.
4. (Currently Amended) The electro-optical apparatus according to claim 3, the antistatic layer having a resistance value ranging from 10^6 to 10^9 Ω/\square .
5. (Original) A projector comprising the electro-optical apparatus according to claim 1.
6. (Currently Amended) A projector, comprising:
a light source;
a color separating optical system that separates a light beam emitted from the light source into a plurality of colors;

a case containing the the light source and the color separating optical system,
the case having an inner surface onto which a surfactant is applied to form an antistatic
treatment layer;

a plurality of electro-optical apparatuses that modulate the color beams that have been separated by the color separating optical system, the plurality of electro-optical apparatuses including the electro-optical apparatus according to claim 1;

a prism that synthesizes the color beams that have been modulated by these electro-optical apparatuses; and

a projection lens that projects light emitted from the prism.

7. (Currently Amended) The projector according to claim 6, further comprising a synthetic resin component, the synthetic resin component being provided with antistatic treatment by applying a surfactant.

8. (Original) The projector according to claim 7, the synthetic resin component being a holding frame that holds the electro-optical apparatus.

9. (Currently Amended) A projector, comprising:
a light source;
an electro-optical apparatus according to claim 1 that forms an optical image from a light beam emitted from the light source;

a projection lens that projects a light beam emitted from the electro-optical apparatus; and

a field lens disposed adjacent to a light source side of the electro-optical apparatus, at least one surface of the field lens being provided with at least one of an antistatic layer and an antistatic treatment, the antistatic layer having a thickness between 100 and 200 nm and containing conductive particulates, the conductive particulates include any of Pd, Pt, Ru, ~~Ag, Au~~, Ti, In, Cu, Cr, Fe, Zn, ~~Sn~~, Ta, W, Pb, HfB₂, ZrB₂, LaB₆, CcB₆, YB₄,

GdB₄, TiC, ZrC, HfC, TaC, SiC, WC, TiN, ZrN, HfN, Si and Ge, the antistatic treatment being formed by applying a surfactant; and

a case containing the the light source, the color separating optical system and the field lens, the case having an inner surface onto which a surfactant is applied to form an antistatic treatment layer;.

10. (Currently Amended) A projector, comprising:

a light source;

an electro-optical apparatus according to claim 1 that forms an optical image from a light beam emitted from the light source;

a case containing the the light source and the color separating optical system, the case having an inner surface onto which a surfactant is applied to form an antistatic treatment layer;

a projection lens that projects a light beam emitted from the electro-optical apparatus; and

an incident polarizer disposed adjacent to a light source side of the electro-optical apparatus, at least one surface of the incident polarizer being provided with at least one of an antistatic layer and an antistatic treatment, the antistatic layer having a thickness between 100 and 200 nm and containing conductive particulates, the conductive particulates include any of Pd, Pt, Ru, ~~Ag, Au~~, Ti, In, Cu, Cr, Fe, Zn, ~~Sn~~, Ta, W, Pb, HfB₂, ZrB₂, LaB₆, CeB₆, YB₄, GdB₄, TiC, ZrC, HfC, TaC, SiC, WC, TiN, ZrN, HfN, Si and Ge, the antistatic treatment being formed by applying a surfactant.

11. (Currently Amended) A projector, comprising:

a light source;

an electro-optical apparatus according to claim 1 that forms an optical image from a light beam emitted from the light source;

a case containing the the light source and the color separating optical system,
the case having an inner surface onto which a surfactant is applied to form an antistatic
treatment layer;

a projection lens that projects a light beam emitted from the electro-optical apparatus;

a light transmitting substrate, at least one surface of the light transmitting substrate being provided with at least one of an antistatic layer and an antistatic treatment, the antistatic layer having a thickness between 100 and 200 nm and containing conductive particulates, the conductive particulates include any of Pd, Pt, Ru, ~~Ag, Au~~, Ti, In, Cu, Cr, Fe, Zn, ~~Sn~~, Ta, W, Pb, HfB₂, ZrB₂, LaB₆, CeB₆, YB₄, GdB₄, TiC, ZrC, HfC, TaC, SiC, WC, TiN, ZrN, HfN, Si and Ge, the antistatic treatment being formed by applying a surfactant; and

an incident polarizer disposed adjacent to a light source side of the electro-optical apparatus, the incident polarizer being bonded to the light transmitting substrate.

12. (Currently Amended) A projector, comprising:

a light source;

an electro-optical apparatus according to claim 1 that forms an optical image from a light beam emitted from the light source;

a case containing the the light source and the color separating optical system,
the case having an inner surface onto which a surfactant is applied to form an antistatic
treatment layer;

a projection lens that projects a light beam emitted from the electro-optical apparatus; and

an emergent polarizer disposed adjacent to a projection lens side of the electro-optical apparatus, at least one surface of the emergent polarizer being provided with at least one of an antistatic layer and an antistatic treatment, the antistatic layer having a

thickness between 100 and 200 nm and containing conductive particulates, the conductive particulates include any of Pd, Pt, Ru, ~~Ag, Au~~, Ti, In, Cu, Cr, Fe, Zn, ~~Sn~~, Ta, W, Pb, HfB₂, ZrB₂, LaB₆, CeB₆, YB₄, GdB₄, TiC, ZrC, HfC, TaC, SiC, WC, TiN, ZrN, HfN, Si and Ge, the antistatic treatment being formed by applying a surfactant.

13. (Currently Amended) A projector, comprising:

a light source;

an electro-optical apparatus according to claim 1 that forms an optical image from a light beam emitted from the light source;

a case containing the the light source and the color separating optical system, the case having an inner surface onto which a surfactant is applied to form an antistatic treatment layer;

a projection lens that projects a light beam emitted from the electro-optical apparatus;

a light transmitting substrate, at least one surface of the light transmitting substrate being provided with at least one of an antistatic layer and an antistatic treatment, the antistatic layer having a thickness between 100 and 200 nm and containing conductive particulates, the conductive particulates include any of Pd, Pt, Ru, ~~Ag, Au~~, Ti, In, Cu, Cr, Fe, Zn, ~~Sn~~, Ta, W, Pb, HfB₂, ZrB₂, LaB₆, CeB₆, YB₄, GdB₄, TiC, ZrC, HfC, TaC, SiC, WC, TiN, ZrN, HfN, Si and Ge, the antistatic treatment being formed by applying a surfactant; and

an emergent polarizer disposed adjacent to a projection lens side of the electro-optical apparatus, the emergent polarizer being bonded to the light transmitting substrate.

14. (Currently Amended) A projector, comprising:

a light source;

an electro-optical apparatus according to claim 1 that forms an optical image from a light beam emitted from the light source;

a case containing the the light source and the color separating optical system,
the case having an inner surface onto which a surfactant is applied to form an antistatic
treatment layer;

a projection lens that projects a light beam emitted from the electro-optical apparatus; and

a phase plate disposed adjacent to at least one of a light source side and a projection lens side of the electro-optical apparatus, at least one surface of the phase plate being provided with at least one of an antistatic layer and an antistatic treatment, the antistatic layer having a thickness between 100 and 200 nm and containing conductive particulates, the conductive particulates include any of Pd, Pt, Ru, ~~Ag, Au~~, Ti, In, Cu, Cr, Fe, Zn, ~~Sn~~, Ta, W, Pb, HfB₂, ZrB₂, LaB₆, CeB₆, YB₄, GdB₄, TiC, ZrC, HfC, TaC, SiC, WC, TiN, ZrN, HfN, Si and Ge, the antistatic treatment being formed by applying a surfactant.

15. (Currently Amended) A projector, comprising:

a light source;

an electro-optical apparatus according to claim 1 that forms an optical image from a light beam emitted from the light source;

a case containing the the light source and the color separating optical system,
the case having an inner surface onto which a surfactant is applied to form an antistatic
treatment layer;

a projection lens that projects a light beam emitted from the electro-optical apparatus;

a light transmitting substrate, at least one surface of the light transmitting substrate being provided with at least one of an antistatic layer and an antistatic treatment, the antistatic layer having a thickness between 100 and 200 nm and containing conductive particulates, the conductive particulates include any of Pd, Pt, Ru, ~~Ag, Au~~, Ti, In, Cu, Cr, Fe,

Zn, ~~Sn~~, Ta, W, Pb, HfB₂, ZrB₂, LaB₆, CeB₆, YB₄, GdB₄, TiC, ZrC, HfC, TaC, SiC, WC, TiN, ZrN, HfN, Si and Ge, the antistatic treatment being formed by applying a surfactant; and

a phase plate disposed adjacent to at least one of a light source side and a projection lens side of the electro-optical apparatus, the phase plate being bonded to the light transmitting substrate.

16. (Currently Amended) A projector, comprising:

a light source;

an electro-optical apparatus according to claim 1 that forms an optical image from a light beam emitted from the light source;

a case containing the the light source and the color separating optical system, the case having an inner surface onto which a surfactant is applied to form an antistatic treatment layer;

a projection lens that projects a light beam emitted from the electro-optical apparatus; and

a visual compensating film for enhancing contrast disposed adjacent to at least one of a light source side and a projection lens side of the electro-optical apparatus, at least one surface of the visual compensating film being provided with at least one of an antistatic layer and an antistatic treatment, the antistatic layer having a thickness between 100 and 200 nm and containing conductive particulates, the conductive particulates include any of Pd, Pt, Ru, ~~Ag, Au~~, Ti, In, Cu, Cr, Fe, Zn, ~~Sn~~, Ta, W, Pb, HfB₂, ZrB₂, LaB₆, CeB₆, YB₄, GdB₄, TiC, ZrC, HfC, TaC, SiC, WC, TiN, ZrN, HfN, Si and Ge, the antistatic treatment being formed by applying a surfactant.

17. (Currently Amended) A projector, comprising:

a light source;

an electro-optical apparatus according to claim 1 that forms an optical image from a light beam emitted from the light source;

a case containing the the light source and the color separating optical system,
the case having an inner surface onto which a surfactant is applied to form an antistatic
treatment layer;

a projection lens that projects a light beam emitted from the electro-optical apparatus;

a light transmitting substrate, at least one surface of the light transmitting substrate being provided with at least one of an antistatic layer and an antistatic treatment, the antistatic layer having a thickness between 100 and 200 nm and containing conductive particulates, the conductive particulates include any of Pd, Pt, Ru, ~~Ag, Au~~, Ti, In, Cu, Cr, Fe, Zn, ~~Sn~~, Ta, W, Pb, HfB₂, ZrB₂, LaB₆, CeB₆, YB₄, GdB₄, TiC, ZrC, HfC, TaC, SiC, WC, TiN, ZrN, HfN, Si and Ge, the antistatic treatment being formed by applying a surfactant; and

a visual compensating film for enhancing contrast disposed adjacent to at least one of a light source side and a projection lens side of the electro-optical apparatus, the visual compensating film being bonded to the light transmitting substrate.

18. (Currently Amended) A projector, comprising:

a plurality of electro-optical apparatuses that modulate a plurality of color beams, each electro-optical apparatus of the plurality of electro-optical apparatuses being according to claim 1;

a case adjacent each of the plurality of electro-optical apparatuses, the case
having an inner surface onto which a surfactant is applied to form an antistatic treatment
layer;

a prism that synthesizes the color beams that have been modulated by the electro-optical apparatuses, the prism having a light incident end surface provided with at least one of an antistatic layer and an antistatic treatment, the antistatic layer having a thickness between 100 and 200 nm and containing conductive particulates, the conductive particulates include any of Pd, Pt, Ru, ~~Ag, Au~~, Ti, In, Cu, Cr, Fe, Zn, ~~Sn~~, Ta, W, Pb, HfB₂,

ZrB₂, LaB₆, CeB₆, YB₄, GdB₄, TiC, ZrC, HfC, TaC, SiC, WC, TiN, ZrN, HfN, Si and Ge, the antistatic treatment being formed by applying a surfactant; and

a projection lens that projects the light emitted from the prism.